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United States Department of Agriculture,

WASHINGTON, D. C., *May 31, 1918.*

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1918.]

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☞**Send no remittances to the U. S. Department of Agriculture.**

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞**Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.**

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Peach Varieties and their Classification. By H. P. Gould, Pomologist, Office of Horticultural and Pomological Investigations. Pp. 15. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 918.)**
A revision of Farmers' Bulletin 633, and suitable for general distribution.

Fumigation of Citrus Trees. By R. S. Woglum, Entomological Assistant, Tropical and Subtropical Fruit Insect Investigations. Pp. 31, figs. 17. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 923.)**

Marketing Butter and Cheese by Parcel Post. By Lewis B. Flohr, Investigator in Marketing, and Roy C. Potts, Specialist in Marketing Dairy Products. Pp. 12, figs. 6. Contribution from the Bureau of Markets. **(Farmers' Bulletin 930.)**

Common White Grubs. By John J. Davis, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 28, figs. 21. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 940.)**
A revision of Farmers' Bulletin 543, and suitable for general distribution.

Dehorning and Castrating Cattle. By Frank W. Farley, Animal Husbandry Division. Pp. 14, figs. 12. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 949.)**

The Southern Corn Rootworm and Farm Practices to Control it. By Philip Luginbill, Entomological Assistant Cereal and Forage Insect Investigations. Pp. 12, figs. 7. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 950.)**

The Disinfection of Stables. By George W. Pope, Assistant Chief of the Quarantine Division. Pp. 12, figs. 6. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 954.)**
A revision of Farmers' Bulletin 480, and for general distribution.

A Simple Hog-Breeding Crate. By J. H. Zeller, Animal Husbandry Division. Pp. 4. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 966.)**

Preparation of Strawberries for Market. By C. T. More, Specialist in Market Grades and Standards and H. E. Truax, Assistant in Grades and Standards. Pp. 27, figs. 18. Contribution from the Bureau of Markets. **(Farmers' Bulletin 979.)**

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

How to Candle Eggs. By M. E. Pennington, Chief, Food Research Laboratory, M. K. Jenkins, Assistant Bacteriologist, and H. M. P. Betts, Artist. Pp. 20, pls. 12, figs. 4. Contribution from the Bureau of Chemistry. May 11, 1918. **(Department Bulletin 565.)** Price, 40 cents.

Pasture Land on Farms in the United States. By E. A. Goldenweiser, Statistician, and J. S. Ball, Assistant in Farm Accounting. Pp. 94, figs. 7. Contribution from the Office of Farm Management. May 9, 1918. **(Department Bulletin 626.)** Price, 10 cents.

Five Years' Calf-Feeding Work in Alabama and Mississippi. By W. F. Ward and S. S. Jerdan, of the Animal Husbandry Division. Pp. 54. Contribution from the Bureau of Animal Industry. April 19, 1918. **(Department Bulletin 631.)** Price, 10 cents.

Cost of Production of Apples in the Payette Valley, Idaho. By S. M. Thompson, Scientific Assistant, G. H. Miller, Assistant Agriculturist. Pp. 36, pls. 2, figs. 8. Contribution from the Office of Farm Management. May 10, 1918. **(Department Bulletin 636.)** Price, 10 cents.

The Four Essential Factors in the Production of Milk of Low Bacterial Content. By S. Henry Ayers, Lee B. Cook, and Paul W. Clemmer, of the Dairy Division. Pp. 63, pls. 6, figs. 23. Contribution from the Bureau of Animal Industry. April 30, 1918. **(Department Bulletin 642.)** Price, 15 cents.

The Argentine Ant in Relation to Citrus Groves. By J. R. Horton, Scientific Assistant, Tropical and Subtropical Fruit Insect Investigations. Pp. 74. Contribution from the Bureau of Entomology. May 3, 1918. **(Department Bulletin 647.)** Price, 15 cents.

A Farm-Management Survey in Brooks County, Georgia. By E. S. Haskell, Assistant Agriculturist. Pp. 60, figs. 21. Contribution from the Office of Farm Management. May 1, 1918. **(Department Bulletin 648.)** Price, 10 cents.

A Farm-Management Study in Anderson County, South Carolina. By A. G. Smith, Agriculturist. Pp. 32, figs. 6. Contribution from the Office of Farm Management. May 8, 1918. **(Department Bulletin 651.)** Price, 5 cents.

Concord Grape Juice: Manufacture and Chemical Composition. By B. G. Hartmann, Fermentation Chemist, and L. M. Tolman, Chief, Central Food and Drug Inspection District. Pp. 27, fig. 1. Contribution from the Bureau of Chemistry. May 8, 1918. **(Department Bulletin 656.)** Price, 5 cents.

A Wheatless Ration for the Rapid Increase of Flesh on Young Chickens. By M. E. Pennington, Chief, H. A. McAleer, Investigator in Poultry and Egg Handling, and A. D. Greenlee, Assistant Chemist, assisted by A. W. Broomell, Assistant Chemist, L. E. Harker, Aid in Poultry and Egg Handling, and H. L. Shrader, Investigator in Poultry and Egg Handling, Food Research Laboratory. Pp. 12, pl. 1. Contribution from the Bureau of Chemistry. (Professional Paper.) May 2, 1918. **(Department Bulletin 657.)** Price, 5 cents.

Vesicular Stomatitis of Horses and Cattle. By John R. Mohler, Chief of the Bureau of Animal Industry. Pp. 11, pl. 1. Contribution from the Bureau of Animal Industry. (Professional Paper.) May 1, 1918. **(Department Bulletin 662.)** Price, 5 cents.

The Installation and Equipment of an Egg-Breaking Plant. By M. K. Jenkins, Assistant Bacteriologist, prepared under the direction of M. E. Pennington, Chief, Food Research Laboratory. Pp. 26, figs. 25. Contribution from the Bureau of Chemistry. (Professional Paper.) May 27, 1918. **(Department Bulletin 663.)** Price, 5 cents.

The Prevention of Breakage of Eggs in Transit when Shipped in Carlots. By M. E. Pennington, Chief, Food Research Laboratory, H. A. McAleer, Investigator in Poultry and Egg Handling, and A. D. Greenlee, Assistant Chemist, assisted by F. X. Dailey and H. C. Albin. Pp. 31, pls. 4, figs. 12. Contribution from the Bureau of Chemistry. April 25, 1918. **(Department Bulletin 664.)** Price, 20 cents.

Status of Farming in the Lower Rio Grande Irrigated District of Texas. By Rex E. Willard, Agriculturist. Pp. 24, figs. 10. Contribution from the Office of Farm Management. April 29, 1918. **(Department Bulletin 665.)** Price, 5 cents.

The Effect of Alkali Treatment on Coccas. By Eugene Bloomberg, formerly Assistant Chemist, Buffalo Food and Drug Inspection Station. Pp. 20. Contribution from the Bureau of Chemistry. (Professional Paper.) May 9, 1918. **(Department Bulletin 666.)** Price, 5 cents.

Nurse Planting Select Cotton Seed. By P. V. Cardon, Assistant Agronomist, Office of Acclimatization and Adaptation of Crop Plants—Cotton Breeding. Pp. 12, figs. 4. Contribution from the Bureau of Plant Industry. May 21, 1918. **(Department Bulletin 668.)** Price, 5 cents.

Hemorrhagic Septicemia. By Henry J. Washburn, Senior Pathologist, Pathological Division. Pp. 11. Contribution from the Bureau of Animal Industry. (Professional Paper.) May 15, 1918. **(Department Bulletin 674.)** Price, 5 cents.

Influence of a City on Farming. (A study of types of farms and their organization in Jefferson County, Ky.) By J. H. Arnold, Agriculturist, and Frank Montgomery, Scientific Assistant. Pp. 24, figs. 3. Contribution from the Office of Farm Management. May 7, 1918. **(Department Bulletin 678.)** Price, 5 cents.

The Application of Optical Methods of Identification to Alkaloids and Other Organic Compounds. By Edgar T. Wherry, Crystallographer. Pp. 9. Contribution from the Bureau of Chemistry. (Professional Paper.) May 20, 1918. **(Department Bulletin 679.)** Price, 5 cents.

Grain-Dust Explosions, Investigation in the Experimental Attrition Mill at the Pennsylvania State College. By B. W. Dedrick, Instructor in Milling Engineering, and R. B. Fehr, Assistant Professor of Mechanical Engineering, The Pennsylvania State College, in collaboration with David J. Price, Engineer in Charge Grain-Dust Explosion Investigations, Bureau of Chemistry, Department of Agriculture. Pp. 54, pls. 4, figs. 5. Contribution from the Bureau of Chemistry. May 18, 1918. (**Department Bulletin 681.**) Price, 10 cents.

Marketing Berries and Cherries by Parcel Post. By C. C. Hawbaker, Assistant in Marketing by Parcel Post, and Charles A. Burmeister, Scientific Assistant. Pp. 18, figs. 10. Contribution from the Bureau of Markets. May 18, 1918. (**Department Bulletin 688.**) Price, 5 cents.

MISCELLANEOUS.

Inventory of Seeds and Plants Imported by the Office of Foreign Seed and Plant Introduction During the Period from January 1 to March 31, 1915. Pp. 123, pls. 9. April 17, 1918. (**Inventory No. 42; Nos. 39682 to 40388.**) Bureau of Plant Industry. Price, 20 cents.

Inventory of Seeds and Plants Imported by the Office of Foreign Seeds and Plant Introduction During the Period from April 1 to June 30, 1915. Pp. 106, pls. 5. March 30, 1918. (**Inventory No. 43 Nos. 40389 to 40895.**) Bureau of Plant Industry. Price, 5 cents.

Use Barley—Save Wheat. Pp. 4. Contribution from States Relations Service. April 18, 1918. (**Circular 111, Office of the Secretary.**)

Use Soy-Bean Flour to Save Wheat, Meat, and Fat. Pp. 4. Contribution from the States Relations Service. May 2, 1918. (**Circular 113, Office of the Secretary.**)

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 13, No. 2. April 8, 1918. Contents: Soil Fungi in Relation to Diseases of the Irish Potato in Southern Idaho. (mw G–139) By O. A. Pratt.—Investigations Concerning the Sources and Channels of Infection in Hog Cholera. (mt A–36) By M. Dorset, C. N. McBryde, W. B. Niles, and J. H. Rietz.—Effect of Temperature and Other Meteorological Factors on the Growth of Sorghums. (mr G–140) By H. N. Vinall and H. R. Reed. Pp. 73–148, pls. 4, figs. 5. Price, 35 cents.

Same, Vol. 13, No. 4. April 22, 1918. Contents: Relation between Biological Activities in the Presence of Various Salts and the Concentration of the Soil Solution in Different Classes of Soil. (nd Mich.–8) By C. E. Millar.—Bacterial Flora of Roquefort Cheese. (mu A–37) By Alice C. Evans.—A Study of the Streptococci Concerned in Cheese Ripening. (mv A–38) By Alice C. Evans.—Intumescences, with a Note on Mechanical Injury as a Cause of Their Development. (nc N. C.–10) By Frederick A. Wolf. Pp. 213–259, pls. 2, fig. 1. Price, 15 cents.

Same, Vol. 13, No. 5. April 29, 1918. Contents: Anthracnose of Lettuce Caused by Marssonia panattoniana. (ng B–14) By E. W. Brandes.—The Calcium Arsenates. (mz Oreg.–3) By R. H. Robinson.—Stemphylium Leafspot of Cucumbers. (ue Ind.–3) By George A. Osner. Pp. 261–306, pls. 6, figs. 7. Price, 25 cents.

Same, Vol. 13, No. 6. May 6, 1918. Contents: Yellow-Leafblotch of Alfalfa Caused by the Fungus Pyrenopeziza medicaginis. (nf G–142) By Fred Reuel Jones.—An Undescribed Canker of Poplars and Willows Caused by Cytospora chrysosperma. (nh G–143) By W. H. Long. Pp. 307–345, pls. 5, figs. 6. Price, 15 cents.

Same, Vol. 13, No. 7. May 13, 1918. Contents: Chemistry of the Cotton Plant, with Special Reference to Upland Cotton. (ni E–8) By Arno Viehoever, Lewis H. Chernoff and Carl O. Johns.—Stability of Olive Oil. (nj Mass.–5) By E. B. Holland, J. C. Reed, and J. P. Buckley, Jr.—Some Bacterial Diseases of Lettuce. (nk G–144) By Nellie A. Brown. Pp. 345–388, pls. 14, fig. 1. Price, 35 cents.

Experiment Station Record. Vol. 37. Index Number. E. W. Allen, Ph. D. Pp. XXV + 901–990. Price, 15 cents.

Same, Vol. 38, No. 3. Abstract Number. April 22, 1918. Pp. 201–300. Price, 15 cents.

Same, Vol. 38, No. 4. March, 1918. Pp. 301–400. Price, 15 cents.

Same. Vol. 38, No. 5. April, 1918. Pp. 401–500. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 4, No. 5. May, 1918. Pp. 45–56. (Bureau of Crop Estimates.)

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only,* at prices noted.

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SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Reconnoissance Soil Survey of the San Diego Region, California. By L. C. Holmes, of the U. S. Department of Agriculture, In Charge, and R. L. Pendleton, of the University of California. Pp. 77, pls. 4, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Hillsborough County, Florida. By Charles N. Mooney, In Charge, T. M. Morrison, Grove B. Jones, E. C. Hall, and N. M. Kirk. Pp. 42, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Taylor County, Texas. By William G. Smith, In Charge, A. E. Kocher, R. F. Rogers, and W. I. Watkins. Pp. 40, figs. 2, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Jefferson, Berkeley, and Morgan Counties, West Virginia. By W. J. Latimer. Pp. 74, pls. 2, map. (From F. O. Soils, 1916.) Price, 15 cents.

SEPARATES.

Cheesemaking brings Prosperity to Farmers of Southern Mountains. By C. F. Doane and A. J. Reed, Bureau of Animal Industry. Pp. 8, pls. 5. (Separate 737, Yearbook, 1917.) Price, 5 cents.

Hides and Skins: Production, Foreign Trade, Supply, and Consumption. By George K. Holmes. Bureau of Crop Estimates. Pp. 24. (Separate 741, Yearbook, 1917.) Price, 5 cents.

The Peanut, a Great American Food. By H. S. Bailey and J. A. Le Clerc, Bureau of Chemistry. Pp. 15, pls. 2. (Separate 746, Yearbook, 1917.) Price, 5 cents.

Growth of the Beef-Cattle Industry in the South. By F. W. Farley. Bureau of Animal Industry. Pp. 16, pls. 4. (Separate 749, Yearbook, 1917.) Price, 5 cents.

Sheep and Intensive Farming. By F. R. Marshall. Bureau of Animal Industry. Pp. 12, pls. 2. (Separate 750, Yearbook, 1917.) Price, 5 cents.

Pig Clubs and the Swine Industry. By J. D. McVean, Bureau of Animal Industry. Pp. 16, pls. 8. (Separate 753, Yearbook, 1917.) Price, 5 cents.

Live Stock, 1917, and Miscellaneous Data. Pp. 51. (Separate 761, Yearbook, 1917.) Price, 5 cents.

Imports and Exports of Agricultural Products. Pp. 43. (Separate 762, Yearbook, 1917.) Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 46, No. 1. January, 1918, Mar. 30, 1918. Pp. 1–54, charts 9, figs. 6. Price, 25 cents per copy, $2.50 per year. Payable to the Superintendent of Documents.

Special articles: Solar and sky radiation during January, 1918. By H. H. Kimball.—Mathematical theory of sound ranging. By H. Bateman.—Mean values of free-air pressures, temperatures, and densities over the United States. By W. R. Gregg.—Turning of winds with altitude. By W. R. Gregg.—Halo of Jan. 10, 1918, at Boulder, Colo. By O. C. Lester.—Diffraction of light in the information of haloes. By S. W. Visser.—Horizontal oscillation of the free atmosphere up to 10 km. at Batavia. By W. van Bemmelen and J. Boerema.—Early use of kites in military operations. By C. C. Chu.—Air chimneys of ice below a waterfall. By R. E. Horton.—Cyclones, tornadoes, thunderstorms, squalls. By A. J. Henry.

Vol. 46, No. 2, February, 1918. (April 6, 1918.) Pp. 55–113, charts 9, figs. 14. 25 cents per copy, $2.50 per year. Payable to the Superintendent of Documents.

Special articles: Solar and sky radiation during February, 1918. By H. H. Kimball.—Nocturnal radiation measurements. By H. H. Kimball.—Molecular scattering of light. By Ch. Fabry.—Partial correlation applied to Dakota data on weather and wheat yield. By T. A. Blair.—Nomenclature of the Unit of absolute pressure. By C. F. Marvin.—Daylight-saving act of March 19, 1918.—Diagrams showing conditions and effects of the daylight-saving act. By C. F. Marvin.—"Summer time" and the British Meteorological Office. By Sir Napier Shaw.—"Summer time" or daylight saving in other countries.—Rainfall of 1917 in the British Isles.—Weather and Honey Production. By L. A. Kenoyer.—Former official enrolled in Naval Reserve Flying Corps.—Forecasts and warnings for February, 1918. By A. J. Henry.—Ice in Rivers, 1917–18. By A. J. Henry.—Great Lakes levels during February, 1918.

Supplement No. 8. May 17, 1918. Pp. 111, figs. 12. Price, 25 cents.

Supplement No. 9. May 1, 1918. Pp. 42, figs. 24. Price, 25 cents.

National Weather and Crop Bulletin, Nos. 4, 5, 6, 7, April, 1918. Reporting temperature, rainfall, and crop conditions throughout the United States.

National Weather and Crop Bulletin, Nos. 8, 9, 10, 11, 12, May, 1918. Reporting temperature, rainfall, and crop conditions throughout the United States.

FRANCIS J. P. CLEARY,
Acting Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1918